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Task 12 : Yeni bir servis oluşturun. Bu servise atılan istekte gelen CustomerDto Listesindeki customer bilgileriyle veritabanına yeni müşteriler oluşturma işlemini gerçekleştirin. Bu işlemi business processler ile asenkron bir şekilde yöneterek gerçekleştirin.

```
<!-- Task 12 -->
<!--
  <itemtype code="CustomerSave" extends="BusinessProcess" autocreate="true" generate="true">
    <attributes>
      <attribute qualifier="customerDTOJson" type="java.lang.String">
        <modifiers optional="true" read="true" write="true" unique="true"/>
        <persistence type="property"/>
      </attribute>
    </attributes>
  </itemtype>
-->
```

İlk olarak Avansasfulfilmentprocess-items.xml’de itemtype yazıp build ettim .

```
<?xml version="1.0" encoding="utf-8"?>
<process xmlns="http://www.hybris.de/xsd/processdefinition" start="createCustomerSave" name="CustomerSaveProcess"
  processClass="com.avansas.fulfillmentprocess.model.createCustomerRegistrationModel"
  onError="error">
  <action id="createCustomerSave" bean="createCustomerSave">
    <transition name="ERROR" to="error"/>
    <transition name="OK" to="success"/>
    <transition name="NOK" to="error"/>
  </action>
  <end id="error" state="ERROR">All went wrong.</end>
  <end id="success" state="SUCCEEDED">Customer is created.</end>
</process>
```

custom-registration-process.xml’de process’imi yazdım içinde action’um olmak ile beraber.

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd">
  <!--Task 12 2 -->
  <bean id="customerRegistrationProcessDefinitionResource" class="de.hybris.platform.processenging.definition.ProcessDefinitionResource">
    <property name="resource" value="classpath:/avansasfulfilmentprocess/process/custom-registration-process.xml"/>
  </bean>
  <bean id="createCustomerRegistrationAction" class="com.avansas.fulfillmentprocess.actions.CreateCustomerRegistrationAction" parent="abstractAction">
    <property name="customerFacade" ref="customerFacade"/>
  </bean>
</beans>
```

custom-registration-process-spring.xml’de gereken beans’lerimi yazdım .

```
@Override
public void CustomerSavingProcess(CustomerData customerData, String randomUUID) throws JsonProcessingException, IOException {
    final CustomerRegistrationModel customerRegistrationModel = (CustomerRegistrationModel)businessProcessService
        .createProcess("CustomerBusinessProcess- " + customerData.getDisplayUid() + "-" + randomUUID,
            "CustomerBusinessProcess");

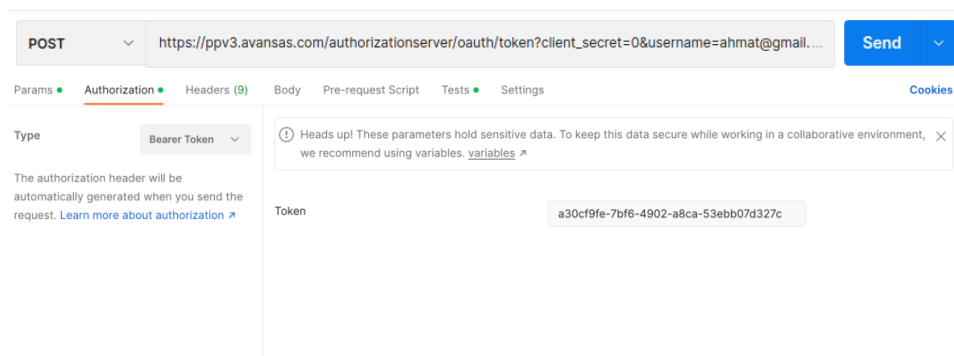
    ObjectMapper objectMapper = new ObjectMapper();
    objectMapper.setSerializationInclusion(JsonSerialize.Inclusion.NON_NULL);
    objectMapper.setSerializationInclusion(JsonSerialize.Inclusion.NON_EMPTY);
    String dtoToJson = objectMapper.writeValueAsString(customerData);
    customerRegistrationModel.setCustomerDTOJson(dtoToJson);

    modelService.save(customerRegistrationModel);
    businessProcessService.startProcess(customerRegistrationModel);
}
}
```

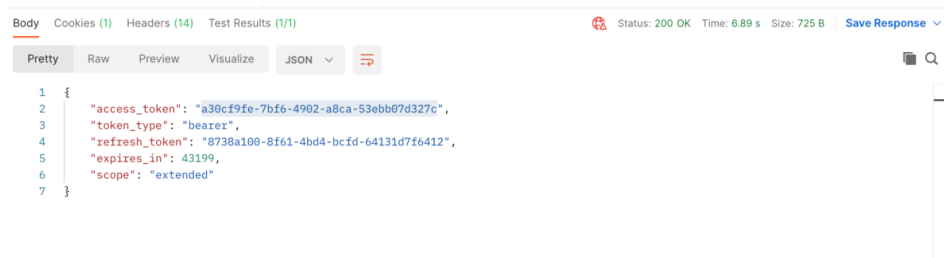
FacadeInterface’ı yazıp implement ettim ve process’i burdan create işlemini başlaması için createProcess fonksiyonu çağırdım sonra kayıt başlatıyor process’imizi.

```
// Task 12
new *
@ResponseBody
@ResponseStatus(HttpStatus.OK)
public CustomerData customerBusinessProcess(@RequestBody final CustomerData customerData) throws JsonProcessingException, IOException{
    String randomUUID = UUID.randomUUID().toString();
    avsCustomerFacade.CustomerSavingProcess(customerData, randomUUID);
    return getDataloader().map(customerData, CustomerData.class);
}
```

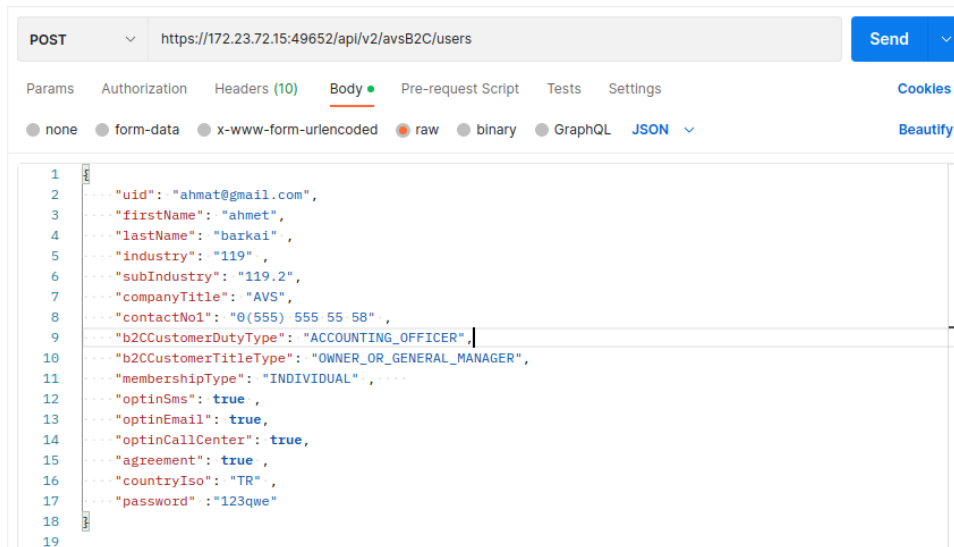
En son olarak da UsersController’da oluşturduğum business process için controller’imi yazdım.



Postman’da gereken hazır package’leri indirip import ettikten sonra test’e başlıyorum.



Access token döndürüldü .





Kayıt işlemi başarılı oldu.



Daha önce öyle bir kayıt olduğuna göre bana hata döndürmektedir .